

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	22538	(aircraft) with (wing wingbox skin)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 10:10
L2	731	(aircraft) with (wing wingbox skin) and (("264"/).clas. or ("156"/).clas.)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 10:10
L3	304	L2 and ((cur\$3 precur\$3 uncur\$3 prepreg) with composite)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 10:11
L4	122	L2 and ((cur\$3 precur\$3 uncur\$3 prepreg) with composite) and (vacuum and autoclave)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 10:11
L5	111	L2 and ((cur\$3 precur\$3 uncur\$3 prepreg) with composite) and (vacuum and autoclave) and (tool\$3 expansion thermal)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 10:12
L6	48	L2 and ((cur\$3 precur\$3 uncur\$3 prepreg) with composite) and (vacuum and autoclave) and (tool\$3 expansion thermal) and (L-shap\$3 beams or (L near4 shap\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 10:17
L7	2	("6565690" "6508909").pn.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 10:17
L8	2	l7 and (tool\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 10:54
L9	2	"6508909".pn.	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2006/08/08 10:54
L10	6	("4882118"   "5242523"   "5593633"   "6245275"   "6306239").PN. OR ("6508909").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 11:00
L11	0	l10 and (friction roughen\$3 sandpaper)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 11:01
L12	4	l10 and (thermal expansion)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 12:43
L13	1	"6706230".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 12:43

## EAST Search History

L14	5	("6245275"   "6391246"   "6478922"   "6508909"   "6523246").PN. OR ("6706230").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 12:43
L15	123	("1092195"   "1444179"   "1934772"   "2674888"   "2715596"   "2749266"   "2766855"   "3146148"   "3568289"   "3643911"   "3703422"   "3787130"   "3810815"   "4086378"   "4102964"   "4217157"   "4267147"   "4323623"   "4463046"   "4606961"   "4622091"   "4657717"   "4676853"   "4734146"   "4765942"   "4786343"   "4851280"   "4853172"   "4882118"   "4908254"   "4915896"   "4942013"   "4944824"   "4963215"   "4981738"   "4983341"   "5022845"   "5073428"   "5242523"   "5350614"   "5463794"   "5492466"   "5501832"   "5547629"   "5593633"   "5817269"   "5896637"   "5935698"   "5980665"   "6007894"   "6017484"   "6245275"   "6306239"   "6391246"   "6478922"   "6508909"   "6520706"   "6523246"   "6709538"   "6718713").PN. OR ("2005/0127576"   "4882118"   "5242523"   "5593633"   "6245275"   "6306239"   "6508909"   "6523246"   "6706230"   "6964723").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 13:00
L16	60	L15 and (friction frictional rough roughen\$3 sandpaper machin\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 13:03
L17	10	L15 and (friction frictional rough roughen\$3 sandpaper)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 13:01
L18	1	L15 and (sandpaper)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 13:03
L19	1288	((mold\$3) with (tool insert)) same (rough\$3 roughen\$3 sandpaper)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 13:04
L20	5	((mold\$3) with (tool insert)) same (rough\$3 roughen\$3 sandpaper) and (composite prepreg) and (aircraft wing wingbox skin) and (stiffen\$3 stiffener stringer)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 13:08

## EAST Search History

L21	19	((tool insert jig) with (surface coat\$3)) same (rough\$3 roughen\$3 sandpaper) and (composite prepreg) and (aircraft wing wingbox skin) and (stiffen\$3 stiffener stringer)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 13:16
L22	0	((tool insert jig) with (surface coat\$3)) same (rough\$3 roughen\$3 sandpaper) and (composite prepreg) and (aircraft wing wingbox skin) and (stiffen\$3 stiffener stringer)	EPO; JPO	OR	ON	2006/08/08 13:16
L23	0	((tool\$3 insert jig) with (surface coat\$3)) same (rough\$3 roughen\$3 sandpaper) and (composite prepreg) and (aircraft wing wingbox skin) and (stiffen\$3 stiffener stringer)	EPO; JPO	OR	ON	2006/08/08 13:16
L24	25	((tool\$3 insert jig) with (surface coat\$3)) same (rough\$3 roughen\$3 sandpaper) and (composite prepreg) and (aircraft wing wingbox skin) and (stiffen\$3 stiffener stringer)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 13:16
L25	6	L24 not I21	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 13:17
L26	37	(aircraft and (wing skin)) and (composite prepreg) and (roughen\$3 rough\$3 friction) and (sandpaper)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 13:19

## EAST Search History

L27	37	(US-20020039620-\$ or US-20040009344-\$ or US-20040084569-\$ or US-20040149734-\$ or US-20050127576-\$ or US-20050142970-\$ or US-20050229816-\$ or US-20050257776-\$ or US-20050281999-\$ or US-20060096580-\$).did. or (US-3883911-\$ or US-3895084-\$ or US-3991248-\$ or US-4333265-\$ or US-4861407-\$ or US-4968383-\$ or US-5209538-\$ or US-5321257-\$ or US-5336348-\$ or US-5628879-\$ or US-5633494-\$ or US-5789085-\$ or US-5814137-\$ or US-5849110-\$ or US-5869141-\$ or US-5869140-\$ or US-5939197-\$ or US-5958578-\$ or US-6007894-\$ or US-6174595-\$ or US-6468613-\$ or US-6475639-\$ or US-6605365-\$ or US-6773535-\$ or US-6793177-\$ or US-6978767-\$). did. or (US-7001666-\$).did.	US-PGPUB; USPAT	OR	ON	2006/08/08 13:19
L28	37	l27 and (sandpaper)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 13:35
L29	1	"6217000".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 13:36
L30	0	l29 and (rough roughened rough\$3 friction\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 13:36
L31	40	("1802815"   "2298839"   "2477852"   "2593714"   "3080268"   "3165569"   "3391511"   "3590590"   "3664906"   "3673057"   "3754717"   "4126719"   "4171999"   "4242161"   "4448628"   "4450661"   "4512837"   "4524556"   "4557090"   "4633632"   "4683099"   "4717330"   "4721593"   "5084219"   "5204042"   "5217669"   "5286438"   "5597435").PN. OR ("6217000"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 13:47
L32	0	l31 and (sandpaper)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 13:47
L33	4	l31 and (friction)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 13:48

## EAST Search History

L34	2	l31 and (rough roughen rough\$3 roughen\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 13:48
L35	645	composite and (sandpaper rough roughen roughen\$3)	EPO; JPO	OR	ON	2006/08/08 13:49
L36	22	composite and (sandpaper rough roughen roughen\$3) and (aircraft wing skin)	EPO; JPO	OR	ON	2006/08/08 13:50
L37	1	composite and (sandpaper) and (aircraft wing skin)	EPO; JPO	OR	ON	2006/08/08 13:50
L38	0	composite and (sandpaper) and (aircraft wing)	EPO; JPO	OR	ON	2006/08/08 13:50
L39	172	composite and (sandpaper) and (aircraft wing)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 13:51

# EAST Search History

L48	172	(US-20010003885-\$ or US-20020039620-\$ or US-20020047717-\$ or US-20020050454-\$ or US-20020116771-\$ or US-20020153736-\$ or US-20020195526-\$ or US-20030041527-\$ or US-20030092558-\$ or US-20030110931-\$ or US-20030135011-\$ or US-20040009744-\$ or US-20040009344-\$ or US-20040038633-\$ or US-20040043703-\$ or US-20040064191-\$ or US-20040065868-\$ or US-20040084569-\$ or US-20040131865-\$ or US-20040149734-\$ or US-20040160538-\$ or US-20050059328-\$ or US-20050056124-\$ or US-20050069712-\$ or US-20050127576-\$ or US-20050142970-\$).did. or (US-20050142288-\$ or US-20050161154-\$ or US-20050176844-\$ or US-20050175966-\$ or US-20050175965-\$ or US-20050194801-\$ or US-20050223650-\$ or US-20050229816-\$ or US-20050237403-\$ or US-20050257776-\$ or US-20050271999-\$ or US-20050281999-\$ or US-20060035088-\$ or US-20060100353-\$ or US-20060100350-\$ or US-20060096580-\$ or US-20060142412-\$ or US-20060169128-\$).did. or (US-3577839-\$ or US-3645080-\$ or US-3689118-\$ or US-3883911-\$ or US-3895084-\$ or US-3914905-\$ or US-3944008-\$ or US-3991248-\$ or US-4022585-\$ or US-4094750-\$ or US-4255364-\$ or US-4333265-\$ or US-4356678-\$ or US-4481081-\$ or US-4588626-\$ or US-4781870-\$ or US-4815572-\$ or US-4820564-\$ or US-4861407-\$ or US-4959408-\$ or US-4961799-\$ or US-4968383-\$ or US-4976202-\$ or US-5034254-\$ or US-5062636-\$ or US-5067085-\$) did. or (US-5066522-\$ or US-5066335-\$ or US-5098037-\$ or	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 13:50
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## EAST Search History

L49	172	l48 and sandpaper	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 13:53
L50	172	l48 and (sandpaper aircraft wing)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 13:53
L51	42	l48 and (sandpaper and (aircraft with (skin wing)))	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 14:26
L52	2194	(composite) and ((tool\$3 insert jig) same (textur\$3 rough\$3 roughen\$3 emboss\$3 raised)) and (expansion)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 14:27
L53	22	(composite) and ((tool\$3 insert jig) same (textur\$3 rough\$3 roughen\$3 emboss\$3 raised)) and (expansion) and (sandpaper)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 14:28
L54	2	(composite) and (pregreg) and ((tool\$3 insert jig) same (textur\$3 rough\$3 roughen\$3 emboss\$3 raised)) and (expansion) and (sandpaper)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 14:29
L55	86	(composite) and (pregreg) and ((tool\$3 insert jig) same (textur\$3 rough\$3 roughen\$3 emboss\$3 raised)) and (expansion)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 15:06
L56	112	(composite) and (pregreg) and ((tool\$3 insert jig) same (textur\$3 rough\$3 roughen\$3 emboss\$3 raised grit gripping grips) same (surface coating layer))	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 15:07
L57	4	(composite) and (pregreg) and ((tool\$3 insert jig) same (textur\$3 rough\$3 roughen\$3 emboss\$3 raised grit gripping grips) same (surface coating layer) same (friction))	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 15:07
L58	15	(US-20030207155-\$ or US-20050127576-\$).did. or (US-4882118-\$ or US-5242523-\$ or US-5458480-\$ or US-5593633-\$ or US-5597435-\$ or US-6245275-\$ or US-6306239-\$ or US-6508909-\$ or US-6523246-\$ or US-6565690-\$ or US-6706230-\$ or US-6733907-\$ or US-6964723-\$).did.	US-PGPUB; USPAT	OR	ON	2006/08/08 15:13
L59	4	l58 and (machined)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 15:13

## EAST Search History

L60	15	I58 and (machined surface)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 15:14
L61	1	I58 and (machined with surface)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 15:14
L62	4	I58 and (machined)	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 15:14
L63	0	(2002/144401).pn.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 15:30
L64	0	(200/144401).pn.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 15:30
L65	1	("20020144401").pn.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 15:31
L66	1	("6735866").pn.	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 15:50
L67	2458	(rough roughened) same (metal) same (surface) same friction	US-PGPUB; USPAT; USOCR	OR	ON	2006/08/08 15:50